



Institute of Food Technologists
Student Association

Smart Snacks for Kids Product Development Competition

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Smart Snacks for Kids Preliminary Proposal Rubric

Product Pitch (30 Points)

Description of Product and Packaging (10 Points)

10-8 Points: Describes the product and all aspects of packaging clearly and completely.

7-4 Points: Some aspects of the product and/or package are unclear, though the general idea is communicated.

3-0 Points: The product idea and/or package is unclear or incomplete, hindering the understanding of this proposal.

Innovation/Novelty (10 Points)

10-7: Displays significant innovation or novelty. Does not resemble any existing product and differentiates itself in many major ways.

7-4 Points: Displays limited innovation or novelty. While it does differentiate itself in minor ways, it largely resembles a singular existing product.

3-0 Points: Lacks significant innovation and novelty. Directly resembles an existing product.

Marketing and Consumer Appeal (10 Points)

10-8 Points: Product marketing is detailed, clearly supporting why the product will appeal to many kids (and/or their parents) compared to competitors/alternatives.

7-4 Points: Product marketing contains gaps or logical flaws; it is partially supported why the product will appeal to some kids (and/or their parents) compared to competitors/alternatives.

3-0 Points: Product marketing is incomplete or deeply flawed.

Process Description (15 Points)

Completeness of Commercial Manufacturing Plan (10 Points)

10-8 Points: Process description does not miss any important steps or processing parameters. Product is commercially manufactured using this general process that would be safe, high quality, and consistent with the product's description.

7-4 Points: Process description is missing a few minor details or contains a few minor mistakes that could lead to an undesirable product.

3-0 Points: Commercial manufacture will not be feasible due to being unclear, incomplete, or highly problematic. No points should be given to a proposal which only describes the benchtop process instead of the scaled-up commercial manufacture.

Process Flow Diagram (5 Points)

5-4 Points: Process flow diagram clearly summarizes all steps and parameters of the product's commercial manufacture.

3-0 Points: Process flow diagram is either incomplete or unclear.

Safety/Shelf Life (15 Points)

Product Safety (10 Points)

10-8 Points: Describes all major hazards in the product and how they can be controlled.

7-4 Points: Minor mistakes or omissions in the safety plan need to be corrected.

3-0 Points: Major mistakes or omissions undermine the product's potential to be manufactured safely.

Shelf Life (5 Points)

5-4 Points: Discusses the expected shelf life and its mode of failure with sufficient reasoning to support the logic.

3-2 Points: The shelf-life estimate, while potentially accurate, is not adequately supported.

1-0 Points: The shelf-life estimate is unrealistic and completely unsupported.

Product Legality (5 Points)

5-4 Points: Mentions the most applicable regulations to the product and describes how it will comply.

3-2 Points: Mentions some applicable regulations, but does not describe exactly how the product would comply.

1-0 Points: Does not mention any applicable regulations.

Commercial Viability (15 Points)

Profitability (10 Points)

10-8 Points: Demonstrates clear profitability with strong support from cost analysis (including ingredients and packaging).

7-4 Points: Demonstrates profitability but with limited support from cost analysis.

3-0 Points: Missing information, unrealistic estimates, or mistakes undermine the claim that the product will be profitable.

Justifies Product Price (5 Points)

5-4 Points: Clearly justifies a realistic product price in relation to competitors and the preferences of target consumers.

3-2 Points: Partially justifies a realistic product price.

1-0 Points: Product price is either completely unjustified or unrealistic.

Nutritional Benefit (20 Points)

Nutrition Information (10 Points)



10-8 Points: Nutrition label is complete, properly formatted (according to the USA's current labeling regulations), and is reasonably accurate considering the products composition.

7-4 Points: Nutrition label is missing a few required nutrients or contains minor formatting mistakes.

3-0 Points: Nutrition label is missing or is unreasonable considering the products composition.

Abides by the USDA "A Guide to Smart Snacks in Schools" Guidelines

(as per competition rules) (10 Points)

10-8 Points: Product fully follows the USDA "A guide to Smart Snacks in Schools", clearly stating if any ingredients fall under healthy exemptions (if applicable)

7-4 Points: Product mostly follows the USDA "A guide to Smart Snacks in Schools" guidelines, making one mistake or failing to declare a healthy exemption (if applicable)

3-0 Points: Product does not reference the USDA "A guide to Smart Snacks in Schools" guidelines or breaks the guidelines in multiple ways.

Smart Snacks for Kids Final Proposal Rubric

Product Pitch (30 Points)

Description of Product and Packaging (10 Points)

10-8 Points: Describes the product and all aspects of packaging clearly and completely.

7-4 Points: Some aspects of the product and/or package are unclear, though the general idea is communicated.

3-0 Points: The product idea and/or package is unclear or incomplete, hindering the understanding of this proposal.

Innovation/Novelty (10 Points)

10-7: Displays significant innovation or novelty. Does not resemble any existing product and differentiates itself in many major ways.

7-4 Points: Displays limited innovation or novelty. While it does differentiate itself in minor ways, it largely resembles a singular existing product.

3-0 Points: Lacks significant innovation and novelty. Directly resembles an existing product.

Marketing and Consumer Appeal (10 Points)

10-8 Points: Product marketing is detailed, clearly supporting why the product will appeal to many kids (and/or their parents) compared to competitors/alternatives.

7-4 Points: Product marketing contains gaps or logical flaws; it is partially supported why the product will appeal to some kids (and/or their parents) compared to competitors/alternatives.

3-0 Points: Product marketing is incomplete or deeply flawed.

Technical Product Description (15 Points)

Description and Justification of Formulation (10 Points)

10-8 Points: Justifies the use of every ingredient by describing their functionalities in the product and defending their inclusion.

7-4 Points: Flawed logic or unjustified ingredients undermine the description of the formulation.

3-0 Points: The ingredient functionalities are either not included or the section does not provide any reasoning for their selection of ingredients.

Description and Justification of Packaging (5 Points)

5-4 Points: Justifies the product's packaging by describing their packaging system and defending the choices made during its creation. 3-2 Points: The description of the packaging is missing minor details or some flawed logic undermines their packaging choices.

1-0 Points: The description of the packaging is missing major details or their packaging choices are deeply flawed.

Process Description (15 Points)

Completeness of Commercial Manufacturing Plan (10 Points)

10-8 Points: Process description does not miss any important steps or processing parameters. Product is commercially manufactured using this general process would be safe, high quality, and consistent with the product's description.

7-4 Points: Process description is missing a few minor details or contains a few minor mistakes that could lead to an undesirable product.

3-0 Points: Commercial manufacture will not be feasible due to being unclear, incomplete, or highly problematic. No points should be given to a proposal which only describes the benchtop process instead of the scaled-up commercial manufacture.

Process Flow Diagram (5 Points)

5-4 Points: Process flow diagram clearly summarizes all steps and parameters of the product's commercial manufacture.

3-0 Points: Process flow diagram is either incomplete or unclear.

Safety/Shelf Life (15 Points)

Product Safety (10 Points)

10-8 Points: Describes all major hazards in the product and how they can be controlled.

7-4 Points: Minor mistakes or omissions in the safety plan need to be corrected.

3-0 Points: Major mistakes or omissions undermine the product's potential to be manufactured safely.

Shelf Life (5 Points)

5-4 Points: Discusses the expected shelf life and its mode of failure with sufficient reasoning to support the logic.

3-2 Points: The shelf-life estimate, while potentially accurate, is not adequately supported.

1-0 Points: The shelf-life estimate is unrealistic and completely unsupported.

Product Legality (5 Points)

5-4 Points: Mentions the most applicable regulations to the product and describes how it will comply.

3-2 Points: Mentions some applicable regulations, but does not describe exactly how the product would comply.

2-0 Points: Does not mention any applicable regulations.

Commercial Viability (15 Points)

Profitability (10 Points)

10-8 Points: Demonstrates clear profitability with strong support from cost analysis (including ingredients and packaging).

7-4 Points: Demonstrates profitability but with limited support from cost analysis.

3-0 Points: Missing information, unrealistic estimates, or mistakes undermine the claim that the product will be profitable.

Justifies Product Price (5 Points)

5-4 Points: Clearly justifies a realistic product price in relation to competitors and the preferences of target consumers.

3-2 Points: Partially justifies a realistic product price.

1-0 Points: Product price is either completely unjustified or unrealistic.

Nutritional Benefit (20 Points)

Nutrition Information (10 Points)

10-8 Points: Nutrition label is complete, properly formatted (according to the USA's current labeling regulations), and is reasonably accurate considering the products composition.

7-4 Points: Nutrition label is missing a few required nutrients or contains minor formatting mistakes.

3-0 Points: Nutrition label is missing or is unreasonable considering the products composition.

Abides by the USDA "A Guide to Smart Snacks in Schools" Guidelines (as per competition rules) (10 Points)

10-8 Points: Product fully follows the USDA "A guide to Smart Snacks in Schools", clearly stating if any ingredients fall under healthy exemptions (if applicable)

7-4 Points: Product mostly follows the USDA "A guide to Smart Snacks in Schools" guidelines, making one mistake or failing to declare a healthy exemption (if applicable)

3-0 Points: Product does not reference the USDA "A guide to Smart Snacks in Schools" guidelines or breaks the guidelines in multiple ways.

Smart Snacks for Kids Oral Presentation Rubric

Product Description (5 Points)

Description of Product, Packaging and Formulation (5 Points)

5-4 Points: Describes the product, packaging, and formulation clearly and completely.

3-2 Points: Some aspects of the product/packaging/formulation are unclear, though the general idea is communicated.

1-0 Points: Many aspects of the product, packaging, or formulation are unclear, hindering the understanding of this presentation.

Process Description (10 Points)

Process Flow Diagram (5 Points)

5-4 Points: Process flow diagram clearly summarizes all steps and parameters of the product's commercial manufacture. Critical control points are included.

3-2 Points: Process flow diagram is difficult to view or understand.

1-0 Points: Process flow diagram is missing major steps or is very unclearly organized.

Completeness of Commercial Manufacturing Plan (5 Points)

5-4 Points: Product commercially manufactured using this process would be safe, high quality, and consistent with the product's description.

3-2 Points: The processing plan contains a few minor mistakes that could lead to an undesirable product.

1-0 Points: The processing plan will not be feasible due to being highly problematic.

Safety/Shelf Life (10 Points)

Product Safety (5 Points)

5-4 Points: Discusses the few most prevalent hazards in the product and how they will be completely controlled. This product will be manufactured safely if production starts immediately.

3-2 Points: Major mistakes or prevalent omissions in the HACCP plan need to be corrected before the product can be manufactured safely.

1-0 Points: The safety of the product is not discussed.

Shelf Life (5 Points)

5-4 Points: Discusses the expected shelf life and its mode of failure with a thorough justification that supports the predictions.

3-2 Points: The shelf-life estimate, while potentially accurate, is not adequately justified.

1-0 Points: The shelf-life estimate is unrealistic and completely unjustified.

Economic Feasibility (15 Points)

Profitability (5 Points)

5-4 Points: Demonstrates clear profitability with strong support.

3-2 Points: Demonstrates profitability but with limited or unconvincing support.

1-0 Points: Missing information, unrealistic estimates, or mistakes undermine the claim that the product will be profitable.

Justifies Product Price (5 Points)

5-4 Points: Clearly justifies a realistic product price in relation to competitors and the preferences of target consumers.

3-2 Points: Partially justifies a realistic product price.

1-0 Points: Product price is either completely unjustified or unrealistic.

Justification of Nutritional Improvement (10 Points)

Nutrition Information (5 Points)

5-4 Points: Nutrition label is complete, properly formatted (according to the USA's current labeling regulations), and is reasonably accurate considering the products composition.

3-2 Points: Nutrition label is missing a few required nutrients or contains minor formatting mistakes.

1-0 Points: Nutrition label is missing or is unreasonable considering the products composition.

Abides by the USDA "A Guide to Smart Snacks in Schools" Guidelines (as per competition rules) (5 Points)

5-4 Points: Product fully follows the USDA "A guide to Smart Snacks in Schools", clearly stating if any ingredients fall under healthy exemptions.

3-2 Points: Product mostly follows the USDA "A guide to Smart Snacks in Schools" guidelines, making one mistake or failing to declare a healthy exemption.

1-0 Points: Product does not reference the USDA "A guide to Smart Snacks in Schools" guidelines or breaks the guidelines in multiple ways.

Persuasion of Product's Potential to Succeed (20 Points)

Persuasion of the Product's Potential (10 Points)

10-8 Points: The presentation convinces the audience (as Food Scientists) that this product would feasibly succeed as a real food product, considering all aspects of product development (profitability, practicality, safety, etc.).

7-4 Points: The presentation partially convinces the listener of this product's potential, but some aspects of the product need more development or justification.

3-0 Points: The presentation does not convince the listener that this product could feasibly succeed as a real food product on the market.

Marketing and Consumer Appeal (10 Points)

10-8 Points: The presentation is highly convincing regarding the product's ability to appeal to many kids compared to competitors/alternatives.

7-4 Points: The presentation is somewhat convincing regarding the product's ability to appeal to some kids compared to competitors/alternatives.

3-0 Points: It is unclear if the product will appeal to kids.

Verbal Presentation (10 Points)

Speaker Engagement (5 Points)

5-4 Points: Speakers are highly confident and engaging while maintaining strong vocal projection throughout. (Though please understand that English may not be everyone's first language)

3-2 Points: Speakers show limited confidence, with noticeable lapses in engagement and vocal delivery.

1-0 Points: Speakers lack confidence, with frequent hesitations and lack of engagement.

Logical Flow (5 Points)

5-4 Points: The oral delivery follows a clear and logical flow, effectively transitioning between topics.

3-2 Points: The flow of the oral delivery can be understood, but certain moments are difficult to follow.

1-0 Points: The oral delivery is disorganized and difficult to follow.

Quality and Content of Slides (10 Points)

Organization of Slides (10 Points)

10-8 Points: Slides are exceptionally well- organized with very clear content, being quickly understood and visually appealing.

7-4 Points: Slides are somewhat organized, with some mistakes hindering the clarity of content or visual appeal.

3-0 Points: Slides are poorly organized and difficult to understand.

Ability to Answer Questions (15 Points)

Content of Answers (10 Points)



10-8 Points: The team provides thorough and convincing answers to questions, with sound logic or scientific reasoning.

7-4 Points: The team provides adequate responses to most questions, but with some aspects left unaddressed or unjustified.

3-0 Points: The team is unable to adequately answer questions.

Confidence and Clarity of Answers (5 points)

5-4 Points: The team responds clearly and confidently to questions.

3-2 Points: The team's responses to questions can be understood but somewhat lack clarity or confidence.

1-0 Points: The team's responses to questions cannot be understood, being completely unclear and unconfident.

Smart Snacks for Kids Tasting Presentation Rubric

Oral Presentation and Reintroduction of the Product (10 Points)

Reintroduction of Product (10 Points)

10-8 Points: The team briefly and effectively reintroduces their product.

7-4 Points: The team somewhat reintroduces their product.

3-0 Points: The team fails to reintroduce their product.

Taste and Eating Experience (30 Points)

Flavor Profile (15 Points)

15-11 Points: The target consumers would consider the product to have an exceptional flavor profile, with a pleasant taste, appealing aroma, and no off flavors.

10-6 Points: The target consumers would consider the product to have a decent flavor, but with some noticeable off-flavors or aromas.

5-0 Points: The target consumers would consider the product to have an unpleasant flavor profile, with major off-flavors and imbalances.

Texture and Mouthfeel (15 Points)

15-11 Points: The target consumers would consider the product to have an excellent texture and mouthfeel, being pleasant.

10-6 Points: The target consumers would consider the product to have an acceptable texture and mouthfeel, with some minor issues.

5-0 Points: The target consumers would consider the product to have an unpleasant texture and mouthfeel.

Expectations and Delivering on Claim (30 Points)

Meeting Product Expectations (20 Points)

20-14 Points: The product fully meets all the claims made during the report and presentation, providing a strong match between description and experience.

13-7 Points: The product meets some claims but falls short on key points.

6-0 Points: The product has significant discrepancies between claims and experience.

Consumer Satisfaction (Considering price/use/marketing/everything) (10 Points)

10-8 Points: Overall, the product is highly satisfying to the consumer, delivering an experience that is likely to encourage consistent consumer interest.

7-4 Points: Overall, the product is mostly satisfying, with minor issues which could lower consumer interest.



3-0 Points: Overall, the product is highly unsatisfying, with major failures that would prevent consistent consumer interest.

Ability to Answer Questions (30 Points)

Defense of Development Decisions from Judges' Questions (20 Points)

20-14 Points: Provides thorough and convincing answers that justify decisions made during the product's development.

13-7 Points: Provides answers that somewhat justify most decisions, with minor gaps.

6-0 Points: Struggles to justify decisions, with several key areas inadequately defended.

Responding to Judge Criticism or Concerns (10 Points)

10-8 Points: Responds effectively to criticism of the product, supporting themselves with calm, clear, and logical reasoning when necessary.

7-4 Points: Responses to criticism are adequate but may lack some clarity or logic.

3-0 Points: Fails to respond effectively to criticism, with poor, angry, or non-existent reasoning.